

CLAIMS

1. A pen type input device with a camera including a pen and a camera mounting on said pen and picking-up an image of a penpoint, wherein

5 said camera is mounted on said pen so that a center position of the image picked up by said camera is located at left side of the tip end of said pen.

10 2. A pen type input device with a camera including a pen and a camera mounting on said pen and picking-up an image of a penpoint, wherein

 said camera is mounted on said pen so that a center position of the image picked up by said camera is located at right side of the tip end of said pen.

15 3. A pen type input device with a camera as set forth in claim 1 or 2, wherein said camera is mounted on said pen so that said camera may pivot relative to said penholder within a range at least 0 to 90° .

20 4. A pen type input device with a camera including a pen, a camera mounting on said pen and picking-up an image of a penpoint, and an information processing apparatus performing process of an image picked up said camera, wherein

25 said information processing apparatus makes judgment of an orientation of an objective image picked up by said camera

depending upon a position of a tip end of said pen in the image picked-up by said camera.

5. A pen type input device with a camera including a pen,
5 a camera mounting on said pen and picking-up an image of a penpoint, and an information processing apparatus performing process of an image picked up said camera, wherein

said information processing apparatus extracts an object to be processed from an image picked up by said camera, determines
10 a process to be executed from the picked-up image, and performs process of said extracted object.

6. A pen type input device with a camera as set forth in claim 5, wherein said information processing apparatus
15 determines a process to be executed on the basis of a color picked up by said camera.

7. A pen type input device with a camera including a pen, a camera mounting on said pen and picking-up an image of a penpoint,
20 and an information processing apparatus performing process of an image picked up said camera, wherein

said information processing apparatus detects position of said object extracted from the image picked up by said camera and said penpoint to display an image indicating pointing of
25 the pen on the basis of the result of detection.

8. A pen type input device with a camera as set forth in claim 7, wherein said information processing apparatus displays an image indicating of pointing of the pen when images in which said extracted object and said penpoint overlap for a times
5 greater than or equal to a predetermined times.

9. A pen type input device with a camera including a pen, a camera mounting on said pen and picking-up an image of a penpoint, and an information processing apparatus performing process of
10 an image picked up said camera, wherein

said information processing apparatus extracts a standard pattern picked up by said camera and extracts an object by correcting an image picked up on the basis of a result of extraction.